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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:	
	<u>August 28, 2003</u>
By	<u>Michelle Chan</u>
	Michelle Chan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.	:		Confirmation No.:
Applicant	:	J. Wallace Parce et al.	
Filed	:	Herewith	
TC/A.U.	:	1639	
Examiner	:	Tran	
Docket No.	:	100/06341	
Customer No.	:	021569	
Title	:	Microscale Assays and Microfluidic Devices for Transporter, Gradient Induced, and Binding Activities	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. This application is a divisional of U.S. Patent Application No. 09/579,111, filed May 25, 2000. All references cited in the attached form 1449 have been previously cited in the parent application. Copies of documents are therefore not being provided pursuant to 37 CFR §1.98(d). If copies of the references are not available to the Examiner, the Examiner is invited to contact the undersigned.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

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J. Wallace Parce et al.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Donald R. McKenna", is written over a horizontal line.

Donald R. McKenna
Reg. No. 44,922

CALIPER TECHNOLOGIES CORP.
605 Fairchild Drive
Mountain View, CA 94043
Tel: 650-623-0700
Fax: 650-623-0504

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known		
		Application Number		
		Filing Date	H rewith	
		First Named Inventor	Parce	
		Art Unit	1639	
		Examiner Name	Tran	
Sheet		of	Attorney Docket Number	100/06341

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number - Kind Code (if known)			
	AA	US-4390403	06-28-1983	Batchelder	
	AB	US-4444879	04-24-1984	Foster et al.	
	AC	US-4908112	03-13-1990	Pace	
	AD	US-5010175	04-23-1991	Rutter et al.	
	AE	US-5126022	06-30-1992	Soane et al.	
	AF	US-5271724	12-21-1993	van Lintel	
	AG	US-5277556	01-01-1994	van Lintel	
	AH	US-5288514	02-22-1994	Ellman	
	AI	US-5375979	12-27-1994	Trah	
	AJ	US-5498392	03-12-1996	Wilding et al.	
	AK	US-5506337	04-09-1996	Summerton et al.	
	AL	US-5519134	05-21-1996	Acevedo et al.	
	AM	US-5525735	06-11-1996	Gallop et al.	
	AN	US-5536382	07-16-1996	Sunzeri	
	AO	US-5539083	07-23-1996	Cook et al.	
	AP	US-5549974	08-27-1996	Holmes	
	AQ	US-5569588	10-29-1996	Ashby et al.	
	AR	US-5571398	11-05-1996	Karger et al.	
	AS	US-5571410	11-05-1996	Swedberg et al.	
	AT	US-5585069	12-17-1996	Zanzucchi et al.	
	AU	US-5587128	12-24-1996	Wilding et al.	
	AV	US-5593838	01-14-1997	Zanzucchi et al.	
	AW	US-5593853	01-14-1997	Chen et al.	
	AX	US-5603351	02-18-1997	Cherukuri et al.	
	AY	US-5635358	06-03-1997	Wilding et al.	
	AZ	US-5637469	06-10-1997	Wilding et al.	
	BA	US-5699157	12-16-1997	Parce	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Name	Tran				
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	BB	US-5716852	02-10-1998	Yager et al.	
	BC	US-5750015	05-12-1998	Soane et al.	
	BD	US-5766848	06-16-1998	Borden et al.	
	BE	US-5779868	07-14-1998	Parce et al.	
	BF	US-5800690	09-01-1998	Chow et al.	
	BG	US-5842787	12-01-1998	Kopf-Sill et al.	
	BH	US-5852495	12-22-1998	Parce	
	BI	US-5858195	01-12-1999	Ramsey	
	BJ	US-5869004	02-09-1999	Parce et al.	
	BK	US-5872010	02-16-1999	Karger et al.	
	BL	US-5876675	03-02-1999	Kennedy	
	BM	US-5880071	03-09-1999	Parce et al.	
	BN	US-5882465	03-16-1999	McReynolds	
	BO	US-5885470	03-23-1999	Parce et al.	
	BP	US-5942443	08-24-1999	Parce et al.	
	BQ	US-5948227	09-07-1999	Dubrow	
	BR	US-5955028	09-21-1999	Chow	
	BS	US-5957579	09-28-1999	Kopf-Sill et al.	
	BT	US-5958203	09-28-1999	Parce et al.	
	BU	US-5958694	09-28-1999	Nikiforov	
	BV	US-5959291	09-28-1999	Jensen	
	BW	US-5964995	10-12-1999	Nikiforov et al.	
	BX	US-5965001	10-12-1999	Chow et al.	
	BY	US-5965410	10-12-1999	Chow et al.	
	BZ	US-5972187	10-26-1999	Parce et al.	
	CA	US-5976336	11-02-1999	Dubrow et al.	
	CB	US-5989402	11-23-1999	Chow et al.	
	CC	US06001231	12-14-1999	Kopf-Sill	
	CD	US-6004515	12-21-1999	Parce et al.	
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	CE	US-6011252	01-04-2000	Jensen	
	CF	US-6012902	01-11-2000	Parce	
	CG	US-6042710	03-28-2000	Dubrow	
	CH	US-6046056	04-04-2000	Parce et al.	
	CI	US-6068752	05-30-2000	Dubrow et al.	
	CJ	US-6071478	06-06-2000	Chow	
	CK	US-6074725	06-13-2000	Kennedy	
	CL	US-6080295	06-27-2000	Parce et al.	
	CM	US-6103199	08-15-2000	Bjornson et al.	
	CN	US-6103537	08-15-2000	Ullman et al.	
	CO	US-6274337	08-14-2001	Parce et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code - Number - Kind Code (if known)					
	CP	WO-9119735		12-26-1991	Bartlett et al.		
	CQ	WO-9200091		01-09-1992	Biologand, Inc.		
	CR	WO-9320242		10-14-1993	Scripps		
	CS	WO-9405414		03-17-1994	UC Regents		
	CT	WO-9604547		02-15-1996	Lockheed Martin		
	CU	WO-9702357		01-23-1997	Affymetrix		
	CV	WO-9800231		01-08-1998	Caliper		
	CW	WO-9800705		01-08-1998	Caliper		
	CX	WO-9800707		01-08-1998	Caliper		
	CY	WO-9802728		01-22-1998	Caliper		
	CZ	WO-9805424		02-12-1998	Caliper		
	DA	WO-9822811		05-28-1998	Caliper		
	DB	WO-9845481		10-15-1998	Caliper		
	DC	WO-9845929		10-15-1998	Caliper		
	DD	WO-9846438		10-22-1998	Caliper		

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	DE	WO-9849548	11-05-1998	Caliper		
	DF	WO-9855852	12-10-1998	Caliper		
	DG	WO-9856505	12-17-1998	Caliper		
	DH	WO-9856956	12-17-1998	Caliper		
	DI	WO-9900649	01-07-1999	Caliper		
	DJ	WO-9910735	03-04-1999	Caliper		
	DK	WO-9912016	03-11-1999	Caliper		
	DL	WO-9916162	04-01-1999	Caliper		
	DM	WO-9917119	04-08-1999	Univ. Wash		
	DN	WO-9919516	04-22-1999	Caliper		
	DO	WO-9919056	04-22-1999	Caliper		
	DP	WO-9929497	06-17-1999	Caliper		
	DQ	WO-9931495	06-24-1999	Caliper		
	DR	WO-9934205	07-08-1999	Caliper		
	DS	WO-9943432	02-09-1999	Caliper		
	DT	WO-9944217	09-02-1999	Caliper		
	DU	WO-9956954	11-11-1999	Caliper		
	DV	WO-0009753	02-24-2000	Caliper		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.		
	DW	AGER, A. "Lymphocyte Recirculation and Homing: Roles of Adhesion Molecules and Chemoattractants" <u>Trends Cell Biol.</u> (1994) 4:326-333		
	DX	BARGATZE, R.F. et al., "Distinct roles of L-Selectin and Integrins alpha 4 beta 7 and LFA-1 in Lymphocyte Homing to Peyer's Patch -HEV in situ: The multistep model confirmed and redefined" <u>Immunity</u> (1995) 3:99-108		
	DY	BRADLEY, L.M. et al., "Lymphocyte Migration into Tissue: The Paradigm Derived From CD4 Subsets" <u>Curr. Opin. Immunol.</u> (1996) 8:312-320		
	DZ	CAMPBELL et al., <u>J. Org. Chem.</u> (1994) 59:658-660		
	EA	CHEN et al., <u>J. Amer. Chem. Soc.</u> (1994) 116:2661-2662		

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	EB	CHO et al., <u>Science</u> (1993) 261:1303-1305	
	EC	COHEN, C.B. et al., "A Microchip-Based Enzyme Assay for Protein Kinase A," <u>Anal. Chem.</u> (1999) 273:89-97	
	ED	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> (1994) 66:1792-1798	
	EE	DIANZANI, U. et al., "Lymphocyte Adhesion to Endothelium" <u>Crit. Rev. Immunol.</u> (1995) 15:167-199	
	EF	FURKA, Int. J. Pept. Prot. Res. (1991) 37:487-493	
	EG	GREY H. et al. "How T Cells See Antigen" <u>Sci. Am.</u> (1989) 261(5):56-64	
	EH	HAGIHARA et al., <u>J. Amer. Chem. Soc.</u> (1992) 114:6568-6570	
	EI	HIRSCHMANN et al., <u>J. Amer. Chem. Soc.</u> (1992) 114:9217-9218	
	EJ	HOBBS et al., <u>PNAS</u> (1993) 90:6909-6913	
	EK	HOGG, N. et al. "Structure and Function of Adhesion Receptors in Leukocyte Trafficking" <u>Immunol. Today</u> (1995) 16:327-330	
	EL	HOUGHTON et al., <u>Nature</u> (1991) 354:84-88	
	EM	HYNES, R.O. "Contact and Adhesive Specificities in the Associations, Migrations, and Targeting of Cells and Axons" <u>Cell</u> (1992) 16:303-321	
	EN	HYNES, R.O. "The Impact of Molecular Biology on Models for Cell Adhesion" <u>Bioessays</u> (1994) 16:663-669	
	EO	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> (1995) 67: 2059-2063	
	EP	KNIGHT, J.B. et al., "Hydrodynamic Focusing on a Silicon Chip: Mixing Nanoliters in Microseconds" <u>Phys. Rev. Letts.</u> (1998) 80(17):3863-3866	
	EQ	KUGELMASS, S.M. et al., "Fabrication and Characterization of Three-Dimensional Microfluidic Arrays" <u>Proc. Of SPIE</u> (1999) 3877:88-94	
	ER	LIANG et al., <u>Science</u> (1996) 274:1520-1522	
	ES	MANZ, A. et al., "Electroosmotic Pumping and Electrophoretic Separations for Miniaturized Chemical Analysis Systems," <u>J. Micromach. Microeng.</u> (1994) 4: 257-265	
	ET	VAUGHN et al., <u>Nature Biotech.</u> (1996) 14(3):309-314	

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